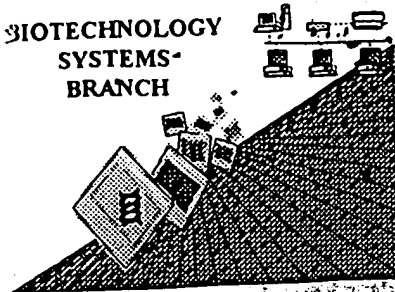0590
1015

BIOTECHNOLOGY
SYSTEMS-
BRANCH

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09 955 639_

Source: _OIPE_

Date Processed by STIC: _10/04/01_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

<u>Checker Version 3.0 can be down loaded from the USPTO website at the following address:</u>
http://www.uspto.gov/web/offices/pac/checker

| ERROR DETECTED | SUGGESTED CORRECTION | SERIAL NUMBER: 09/955639 |

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO

1 _____ Wrapped Nucleics / Wrapped Aminos — The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 _____ Invalid Line Length — The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 _____ Misaligned Amino Numbering — The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 _____ Non-ASCII — The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 _____ Variable Length — Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 _____ PatentIn 2.0 "bug" — A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 _____ Skipped Sequences (OLD RULES) — Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)　　　SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 _____ Skipped Sequences (NEW RULES) — Sequence(s) _____ missing. If Intentional, please insert the following lines for each skipped sequence
<210> sequence id number
<400> sequence id number
000

9 _____ Use of n's or Xaa's (NEW RULES) — Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 __✓__ Invalid <213> Response — Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 _____ Use of <220> — Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)　(Sec. 1.823 of Sequence Rules)

12 _____ PatentIn 2.0 "bug" — Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 _____ Misuse of n — n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch – 08/21/2001

OIPE

RAW SEQUENCE LISTING   DATE: 10/04/2001
PATENT APPLICATION: US/09/955,639   TIME: 17:27:29

Input Set : A:\SeqList_34506110.txt
Output Set: N:\CRF3\10042001\I955639.raw

```
      3 <110> APPLICANT: Niles, Andrew L
      4        Haak-Frendscho, Mary
      5        Harris, Jennifer L
      6        Craik, Charles S
      8 <120> TITLE OF INVENTION: Tryptase Substrates and Assay For Tryptase Activity Using
Same
     10 <130> FILE REFERENCE: 34506.xxx
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/955,639
     13 <141> CURRENT FILING DATE: 2001-09-19
     15 <150> PRIOR APPLICATION NUMBER: 60/244,013
     16 <151> PRIOR FILING DATE: 2000-10-27
     18 <160> NUMBER OF SEQ ID NOS: 23
     20 <170> SOFTWARE: PatentIn version 3.1
     22 <210> SEQ ID NO: 1
     23 <211> LENGTH: 4
     24 <212> TYPE: PRT
     25 <213> ORGANISM: Synthetic polypeptide
     27 <220> FEATURE:
     28 <221> NAME/KEY: MISC_FEATURE
     29 <222> LOCATION: (2)..(2)
     30 <223> OTHER INFORMATION: Xaa at position 2 is Arg (R) or Lysine (K)
     33 <220> FEATURE:
     34 <221> NAME/KEY: MISC_FEATURE
     35 <222> LOCATION: (3)..(3)
     36 <223> OTHER INFORMATION: Xaa at position 3 is any amino acid
     39 <220> FEATURE:
     40 <221> NAME/KEY: MISC_FEATURE
     41 <222> LOCATION: (4)..(4)
     42 <223> OTHER INFORMATION: Xaa at position 4 is Arg (R) or Lys (K)
     45 <400> SEQUENCE: 1
W--> 47 Pro Xaa Xaa Xaa
     48 1
     51 <210> SEQ ID NO: 2
     52 <211> LENGTH: 4
     53 <212> TYPE: PRT
     54 <213> ORGANISM: Synthetic polypeptide
     56 <400> SEQUENCE: 2
     58 Pro Arg Asn Lys
     59 1
     62 <210> SEQ ID NO: 3
     63 <211> LENGTH: 4
     64 <212> TYPE: PRT
     65 <213> ORGANISM: Synthetic polypeptide
     67 <400> SEQUENCE: 3
     69 Pro Lys Asn Lys
     70 1
     73 <210> SEQ ID NO: 4
     74 <211> LENGTH: 4
```

Handwritten annotations:

Does Not Comply
Corrected Diskette Needed

Errored: "Artificial Sequence", "Unknown" and the name of some specific species are the only appropriate response to the 213 field

FYI: A 213 response of "Artificial Sequence" requires a response of for example "Synthetic Polypeptide" in field 223.

good

Errored: Invalid 212 response

Errored: Invalid 213 response

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING   DATE: 10/04/2001
PATENT APPLICATION: US/09/955,639   TIME: 17:27:29

Input Set : A:\SeqList_34506110.txt
Output Set: N:\CRF3\10042001\I955639.raw

```
75  <212> TYPE: PRT
76  <213> ORGANISM: Synthetic polypeptide
78  <400> SEQUENCE: 4
80  Pro Arg Asn Arg
81  1
84  <210> SEQ ID NO: 5
85  <211> LENGTH: 4
86  <212> TYPE: PRT
87  <213> ORGANISM: Synthetic polypeptide
89  <400> SEQUENCE: 5
91  Pro Lys Asn Arg
92  1
95  <210> SEQ ID NO: 6
96  <211> LENGTH: 4
97  <212> TYPE: PRT
98  <213> ORGANISM: Synthetic polypeptide
100 <400> SEQUENCE: 6
102 Pro Ala Asn Lys
103 1
106 <210> SEQ ID NO: 7
107 <211> LENGTH: 4
108 <212> TYPE: PRT
109 <213> ORGANISM: Synthetic polypeptide
111 <400> SEQUENCE: 7
113 Pro Arg Thr Lys
114 1
117 <210> SEQ ID NO: 8
118 <211> LENGTH: 4
119 <212> TYPE: PRT
120 <213> ORGANISM: Synthetic polypeptide
122 <400> SEQUENCE: 8
124 Pro Arg Phe Lys
125 1
128 <210> SEQ ID NO: 9
129 <211> LENGTH: 4
130 <212> TYPE: PRT
131 <213> ORGANISM: Synthetic polypeptide
133 <400> SEQUENCE: 9
135 Thr Arg Leu Arg
136 1
139 <210> SEQ ID NO: 10
140 <211> LENGTH: 4
141 <212> TYPE: PRT
142 <213> ORGANISM: Synthetic polypeptide
144 <400> SEQUENCE: 10
146 Ser Lys Gly Arg
147 1
150 <210> SEQ ID NO: 11
151 <211> LENGTH: 4
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RAW SEQUENCE LISTING   DATE: 10/04/2001
PATENT APPLICATION: US/09/955,639   TIME: 17:27:29

Input Set : A:\SeqList_34506110.txt
Output Set: N:\CRF3\10042001\I955639.raw

```
    152 <212> TYPE: PRT
    153 <213> ORGANISM: Synthetic polypeptide
    155 <400> SEQUENCE: 11
    157 Pro Asn Asp Lys
    158 1
    161 <210> SEQ ID NO: 12
    162 <211> LENGTH: 4
    163 <212> TYPE: PRT
    164 <213> ORGANISM: Synthetic polypeptide
    166 <220> FEATURE:
    167 <221> NAME/KEY: MOD_RES
    168 <222> LOCATION: (1)..(1)
    169 <223> OTHER INFORMATION: P at position 1 is modified to contain an N-terminal acetyl
group
    172 <220> FEATURE:
    173 <221> NAME/KEY: MOD_RES
    174 <222> LOCATION: (4)..(4)
    175 <223> OTHER INFORMATION: K at position 4 is modified to contain a C-terminal 7-amino-
4-car
    176       bamoylmethyl-coumarin group
    179 <400> SEQUENCE: 12
    181 Pro Arg Asn Lys
    182 1
    185 <210> SEQ ID NO: 13
    186 <211> LENGTH: 4
    187 <212> TYPE: PRT
    188 <213> ORGANISM: Synthetic polypeptide
    190 <220> FEATURE:
    191 <221> NAME/KEY: MOD_RES
    192 <222> LOCATION: (1)..(1)
    193 <223> OTHER INFORMATION: P at position 1 is modified to include an N-terminal acetyl
group
    196 <400> SEQUENCE: 13
    198 Pro Arg Asn Lys
    199 1
    202 <210> SEQ ID NO: 14
    203 <211> LENGTH: 4
    204 <212> TYPE: PRT
    205 <213> ORGANISM: Synthetic polypeptide
    207 <220> FEATURE:
    208 <221> NAME/KEY: MOD_RES
    209 <222> LOCATION: (1)..(1)
    210 <223> OTHER INFORMATION: P at position 1 is modified to include an N-terminal acetyl
group
    213 <220> FEATURE:
    214 <221> NAME/KEY: MOD_RES
    215 <222> LOCATION: (4)..(4)
    216 <223> OTHER INFORMATION: K at position 4 is modified to include a C-terminal
chloromethyl
    217       ketone group
    220 <400> SEQUENCE: 14
    222 Pro Arg Asn Lys
    223 1
```

226 <210> SEQ ID NO: 15

Input Set : A:\SeqList_34506110.txt
Output Set: N:\CRF3\10042001\I955639.raw

```
227 <211> LENGTH: 4
228 <212> TYPE: PRT
229 <213> ORGANISM: Synthetic polypeptide
231 <220> FEATURE:
232 <221> NAME/KEY: MOD_RES
233 <222> LOCATION: (1)..(1)
234 <223> OTHER INFORMATION: P at position 1 is modified to include an N-terminal acetyl
group
237 <220> FEATURE:
238 <221> NAME/KEY: MOD_RES
239 <222> LOCATION: (4)..(4)
240 <223> OTHER INFORMATION: K at position 4 is modified to include a C-terminal 7-amino-
4-car
241       bamoylmethyl-coumarin group
244 <400> SEQUENCE: 15
246 Pro Arg Asn Lys
247 1
250 <210> SEQ ID NO: 16
251 <211> LENGTH: 4
252 <212> TYPE: PRT
253 <213> ORGANISM: Synthetic polypeptide
255 <220> FEATURE:
256 <221> NAME/KEY: MOD_RES
257 <222> LOCATION: (1)..(1)
258 <223> OTHER INFORMATION: P at position 1 is modified to include an N-terminal acetyl
group
261 <220> FEATURE:
262 <221> NAME/KEY: MOD_RES
263 <222> LOCATION: (4)..(4)
264 <223> OTHER INFORMATION: K at position 4 is modified to include a C-terminal 7-amino-
4-car
265       bamoylmethyl-coumarin group
268 <400> SEQUENCE: 16
270 Pro Arg Thr Lys
271 1
274 <210> SEQ ID NO: 17
275 <211> LENGTH: 4
276 <212> TYPE: PRT
277 <213> ORGANISM: Synthetic polypeptide
279 <220> FEATURE:
280 <221> NAME/KEY: MOD_RES
281 <222> LOCATION: (1)..(1)
282 <223> OTHER INFORMATION: P at position 1 is modified to include an N-terminal acetyl
group
285 <220> FEATURE:
286 <221> NAME/KEY: MOD_RES
287 <222> LOCATION: (4)..(4)
288 <223> OTHER INFORMATION: K at position 4 is modified to include a C-terminal 7-amino-
4-car
289       bamoylmethyl-coumarin group
292 <400> SEQUENCE: 17
294 Pro Arg Asn Arg
295 1
```

298 <210> SEQ ID NO: 18
299 <211> LENGTH: 4

RAW SEQUENCE LISTING   DATE: 10/04/2001
PATENT APPLICATION: US/09/955,639   TIME: 17:27:29

Input Set : A:\SeqList_34506110.txt
Output Set: N:\CRF3\10042001\I955639.raw

```
300 <212> TYPE: PRT
301 <213> ORGANISM: Synthetic polypeptide
303 <220> FEATURE:
304 <221> NAME/KEY: MOD_RES
305 <222> LOCATION: (1)..(1)
306 <223> OTHER INFORMATION: ACETYLATION
309 <220> FEATURE:
310 <221> NAME/KEY: MOD_RES
311 <222> LOCATION: (4)..(4)
312 <223> OTHER INFORMATION: N-METHYLATION
315 <400> SEQUENCE: 18
317 Pro Arg Asn Lys
318 1
321 <210> SEQ ID NO: 19
322 <211> LENGTH: 4
323 <212> TYPE: PRT
324 <213> ORGANISM: Synthetic polypeptide
326 <400> SEQUENCE: 19
328 Pro Arg Phe Lys
329 1
332 <210> SEQ ID NO: 20
333 <211> LENGTH: 4
334 <212> TYPE: PRT
335 <213> ORGANISM: Synthetic polypeptide
337 <400> SEQUENCE: 20
339 Ile Arg Ser Lys
340 1
343 <210> SEQ ID NO: 21
344 <211> LENGTH: 4
345 <212> TYPE: PRT
346 <213> ORGANISM: Synthetic polypeptide
348 <400> SEQUENCE: 21
350 Ser Lys Gly Arg
351 1
354 <210> SEQ ID NO: 22
355 <211> LENGTH: 4
356 <212> TYPE: PRT
357 <213> ORGANISM: Synthetic polypeptide
359 <400> SEQUENCE: 22
361 Phe Arg Thr Lys
362 1
365 <210> SEQ ID NO: 23
366 <211> LENGTH: 4
367 <212> TYPE: PRT
368 <213> ORGANISM: Synthetic polypeptide
370 <400> SEQUENCE: 23
372 Ile Lys Thr Lys
373 1
```

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/955,639

DATE: 10/04/2001
TIME: 17:27:30

Input Set : **A:\SeqList_34506110.txt**
Output Set: **N:\CRF3\10042001\I955639.raw**

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:47 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1